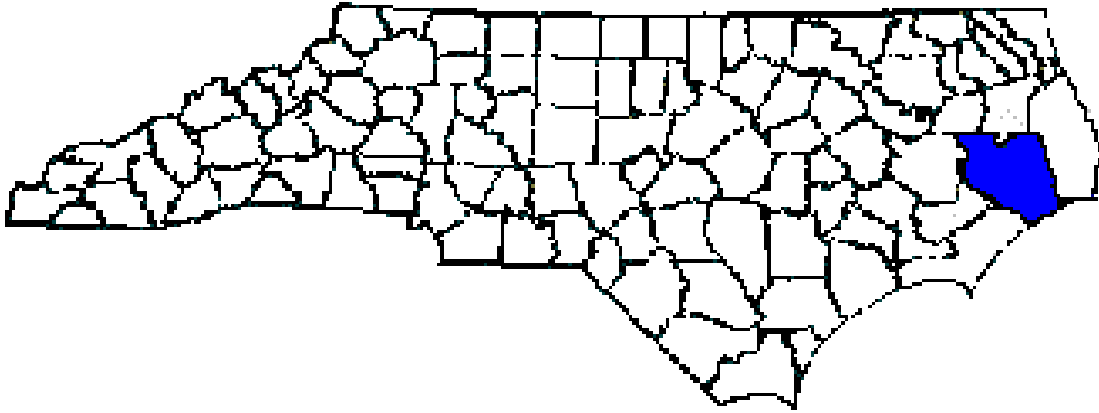


ANNUAL REPORT FOR 2010



Kitty Creek & Wallace Canal
Hyde County
TIP No. B-3348
CAMA permit No. 100-04



Prepared By:
Natural Environment Unit & Roadside Environmental Unit
North Carolina Department of Transportation
August 2010

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SUMMARY

The Kitty Creek & Wallace Canal Mitigation Site (B-3348) is located in Hyde County. The site was planted in May 2008 and was designed as wetland mitigation for impacts associated with bridge project B-3348.

The North Carolina Department of Transportation (NCDOT) will mitigate the project impacts by restoring 0.26 acres of wetlands associated with the causeway removal and bridge replacement for this project. Approximately 0.64 acres of wetlands will be restored at this project location with 0.26 acres being utilized for this project and another 0.14 acres being utilized for TIP No. B-3349 (Action I.D. #200411264). The restoration area was re-vegetated with native brackish marsh plant species.

In accordance with the Division of Coastal Management permit (Permit # 100-04), if the excess mitigation generated by this project is to be used as mitigation for impacts of future projects, written concurrence must be obtained from DCM that post-construction monitoring demonstrates that vegetative and hydrologic success criteria have been met. Vegetative and hydrologic monitoring data shall be made available to DCM at such time as the site is proposed for use as mitigation for future projects. NCDOT is planning to install hydrologic monitoring gauges in fall of 2010 and will include the data in the 2011 monitoring report.

After the third year of monitoring, the Kitty Creek & Wallace Canal Mitigation Site shows by visual observation that the restoration area is re-attaining wetland jurisdictional status and marsh species planted in the wetland restoration area are surviving in the planted areas.

NCDOT proposes to continue vegetation monitoring at the Kitty Creek & Wallace Canal Mitigation Site.

1.0 INTRODUCTION

1.1 Project Description

The Kitty Creek & Wallace Canal Mitigation Site is located at Bridge No's. 52 and 54 on US 264 over Kitty Creek and Wallace Canal (Figure 1). The site consists of approximately 0.64 acres of mitigation.

1.2 Purpose

In order for a mitigation site to be considered successful, the site must meet visual success criteria for five years. This report details the third visual monitoring in 2010 at the Kitty Creek & Wallace Canal Mitigation Site. Hydrologic monitoring was not required for the site.

1.3 Project History

April 2008	Phragmites Treated
May 2008	Site Planted
July 2008	Visual Monitoring (1 year)
August 2009	Phragmites Treated
August 2009	Visual Monitoring (2 year)
August 2010	Phragmites Treated
August 2010	Visual Monitoring (3 year)

1.4 Debit Ledger

Site name	Site TIP	HUC	River Basin	Division	County	Mitigation Type	Notes	As Built Quantity	Available	Debit	Debit
Kitty Crk. & Wallace Canal on US 264	B-3348	3020105	Tar-Pamlico	1	Hyde					B-3348	B-3349
						Marsh Restoration		0.64	0.24	0.26	0.14

Note: Debit ledger information up to date as of September 7, 2010.

2.0 VEGETATION: KITTY CREEK & WALLACE CANAL MITIGATION SITE (YEAR 3 MONITORING)

2.1 Success Criteria

NCDOT shall monitor the restoration site by visual observation and photo points for survival. The site success will be evaluated to assess whether at least 75% of the area is covered with the target vegetation. NCDOT shall monitor the site for five years or until the site is deemed successful. Monitoring will be initiated upon completion of the site planting.

2.2 Description of Species

The following tree species were planted in the Wetland Restoration area:

Juncus roemerianus, Black Needlerush

Spartina patens, Salt Meadow Cordgrass

Spartina cynosuroides, Big Cordgrass

2.3 Results of Vegetation Monitoring

The wetland restoration area is re-attaining jurisdictional status and the planted species are surviving in the planted areas. The planted species have begun to spread throughout the site.

Site Notes: Other species noted: cattails, *Scirpus robustus*, *Baccharis* sp., marsh-elder, *Spartina alterniflora*, phragmites, saltgrass, and various other grasses. The phragmites that was noted on site prior to the site being planted was treated on April 18, 2008. Since, then phragmites noted on site has been treated on August 25, 2009 and August 6, 2010. The phragmites noted on site in August 2010 was very minimal but will continue to be treated to prevent further spreading.

2.4 Conclusions

There were approximately 0.64 acres total of wetland restoration on site. There were no plots established on the site. By visual observation, the Kitty Creek & Wallace Canal Mitigation Site shows that the planted species are surviving in the planted areas and that the restoration area is re-attaining wetland jurisdictional status.

3.0 OVERALL CONCLUSIONS AND RECOMMENDATIONS

NCDOT proposes to continue vegetation monitoring at the Kitty Creek & Wallace Canal Mitigation Site. Hydrologic monitoring will be included in the 2011 monitoring report.

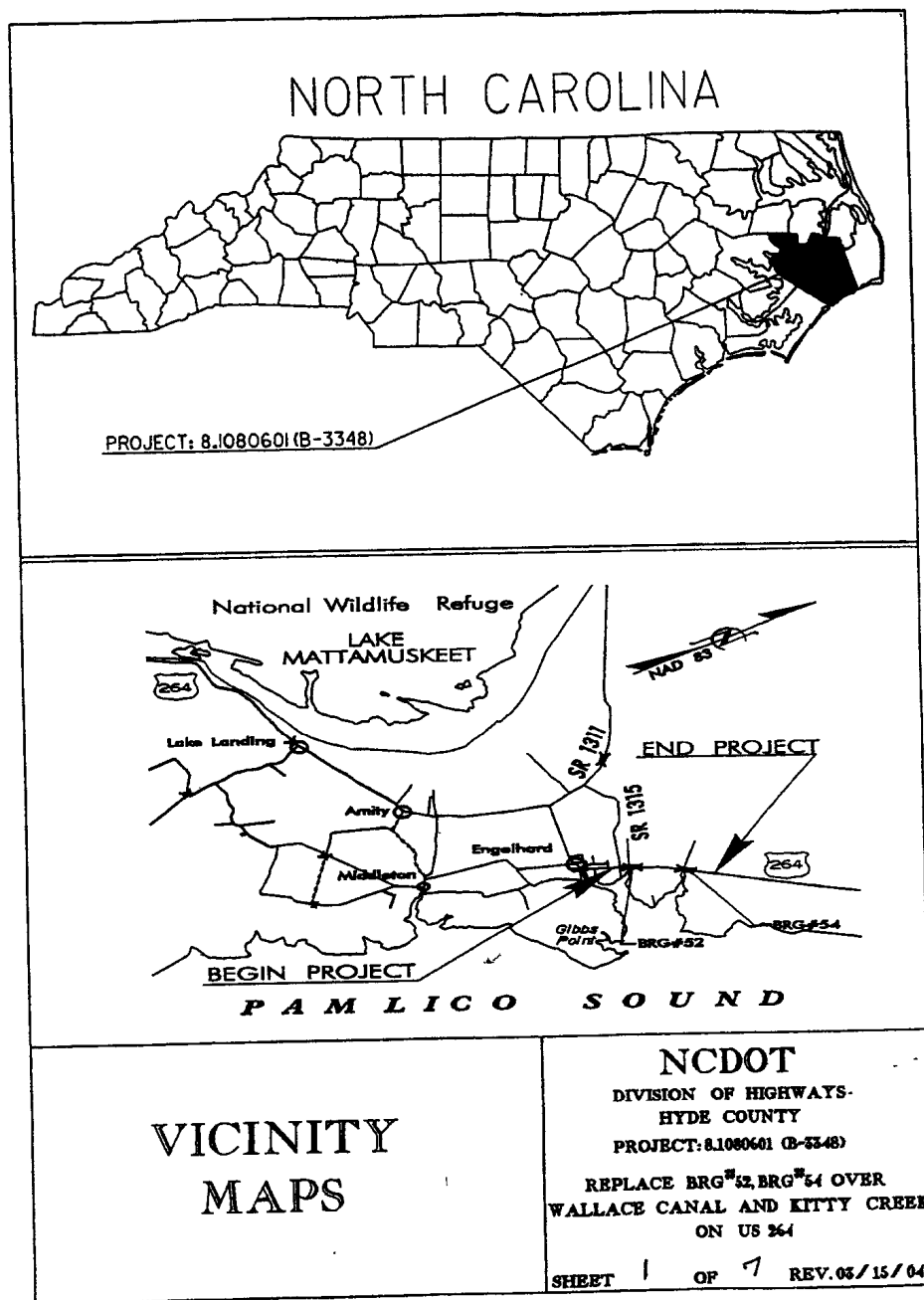


Figure 1. Site Location Map

APPENDIX A

SITE PHOTOS

Kitty Creek & Wallace Canal



Photo 1



Photo 2



Photo 3



Photo 4



Photo 5
August 2010



Photo 6

Kitty Creek & Wallace Canal



Photo 7



Photo 8